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(54) MUTANT STRAIN OF BIFIDUS AND CULTIVATION COMPOSITION THEREOF

(57)Abstract:

PURPOSE: To provide the titled mutant belonging to Bifidobacterium longum, having high hydrogen peroxide resistance, and capable of keeping the number of bifidus cells even in the storage of a food under aerobic condition or acidic condition.

CONSTITUTION: Bifidobacterium longum ATCC-15708 is applied to a blood liver agar (BL agar) plate or Brigg's liver agar plate, irradiated with ultraviolet radiation to an extent to give a survival rate of $\leq 0.1\%$, and cultured at 37°C for 48hr under anaerobic condition. The strain is streaked to a BL agar plate, cultured under anaerobic condition, subjected to pure culture, and sub-cultured for several generations. A strain resistant to H₂O₂ having high concentration as far as possible is selected by the H₂O₂ resistant test. A number of H₂O₂ resistant strains were sub-cultured for 10 generations, and a strain [Bifidobacterium longum No.1022 (FERM-P No.8033)] having H₂O₂ resistance and high stability was separated. The strain has improved oxygen resistance and acid resistance.

